

# Homework 8

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**2-8**

For the case of the binary matrix, the loss for each entry with a value of 1 is  $-\log(\sigma((M^T)_{ij}))$ .  
When the entry value is 0, the loss will be  $-\log(1 - \sigma((M^T)_{ij}))$   
For the fractional case

**4-6**

**4-10**